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IMAGE ANALYSIS (U)

by

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MONTHLY REPORT

ON

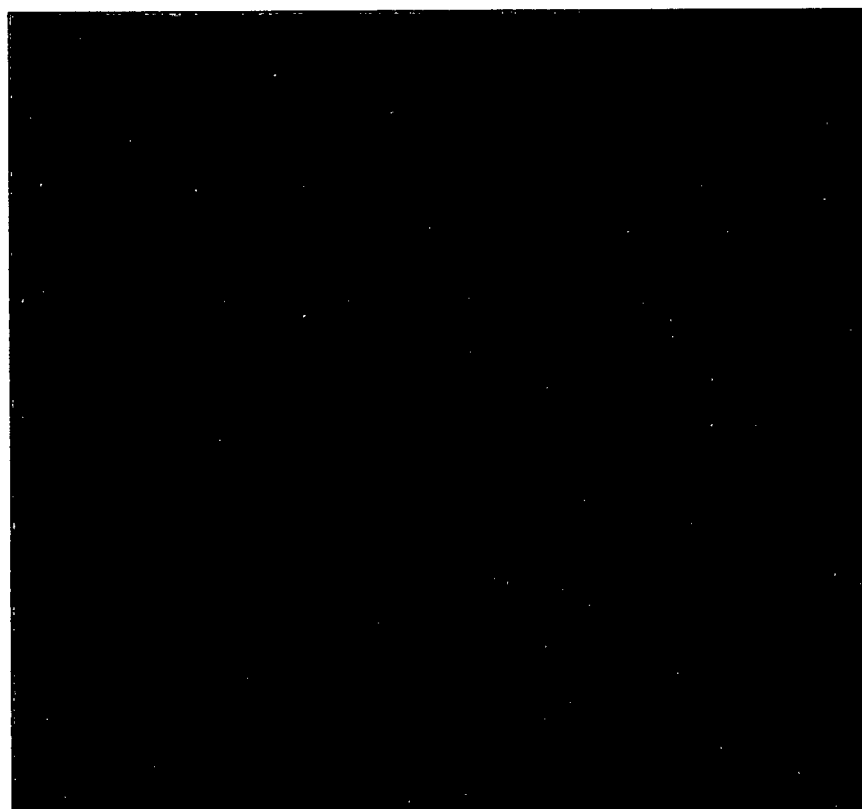
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Reporting Period:

1 January 1969 to 31 January 1969

14 February 1969



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MONTHLY REPORT
ON
IMAGE ANALYSIS (U)

MENSURATION WITH IDT AND I. Q.

The necessary traces of the mensuration targets on the IDT and I. Q. have been completed and the results are now undergoing final analysis. The results to date indicate that these instruments can be of definite use in making more accurate measurements of small objects on film than an optical comparator. These measurements have been made by applying the criterion that the position of an edge should be taken to be at the point of maximum density gradient. This criterion has also been investigated theoretically, and appears to have a sound bases.

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SPATIAL FILTERING IN SCANNING SYSTEMS

Experiments on inverse filtering in the laser-illuminated microdensitometer have demonstrated that this type of filtering can be performed successfully in the scanning mode. Although an ideal inverse filter cannot be used in this instrument due to the large amount of light such a filter would absorb, it has been shown that partial inverse filters can, for example, increase the contrast of three-bar targets of frequencies near the resolution limit of the taking system.

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PROGRESS REPORT NO. 6

PROJECT 6607

Period: January 1 through January 31, 1969

by

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Prepared For

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Contract Status Report No. 6

PROGRESS DURING THE PERIOD

All comparator readings that were scheduled were made, and the data run through the analysis program. Some additional microdensitometer traces were run to provide a set of microdensitometer data that includes one image taken under each of the four conditions. (f/8 and f/16 apertures, target 1 and target 6.) The widths of the single bars were computed by using the half density points. This data will be included in the final report.

The draft copy of the final report has been written. This report will be delivered during the next period.

PROBLEM AREAS

No significant problems exist at this time.

WORK PLANNED FOR NEXT PERIOD

The primary activity during the next reporting period will be editing of the final report. Some additional analysis will also be performed to examine possible analytical correction methods for the available data.

PERSONNEL

No changes in personnel have been made on the program.

PERCENTAGE COMPLETION

All tasks covered on the original work statement are completed.

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